

Title (en)
INFRASTRUCTURE POSITIONING CAMERA SYSTEM

Title (de)
INFRASTRUKTURPOSITIONIERENDES KAMERASYSTEM

Title (fr)
SYSTÈME DE CAMÉRA DE POSITIONNEMENT D'INFRASTRUCTURE

Publication
EP 3982081 A1 20220413 (EN)

Application
EP 21210825 A 20180517

Priority
• US 201715604169 A 20170524
• EP 18730569 A 20180517
• US 2018033243 W 20180517

Abstract (en)
Multiple cameras are used for tool positioning, as-built documentation, and/or personnel monitoring in construction site. A camera unit comprises one or more imaging devices, a processing computer, and a communication device. The camera units are placed at multiple locations in a construction site to cover an area. The camera units are self-positioned by detecting a calibration target that moves within a working volume. The camera units can detect and calculate positions of objects, including measurement sticks, tools, personnel, etc., in the area.

IPC 8 full level
G01C 15/00 (2006.01); **G01C 3/08** (2006.01); **G01C 11/06** (2006.01); **G01S 17/66** (2006.01); **G06T 7/285** (2017.01); **G06T 7/593** (2017.01); **G06T 7/80** (2017.01); **H04N 13/204** (2018.01); **H04N 13/296** (2018.01); **H04N 23/90** (2023.01); **H04W 4/029** (2018.01)

CPC (source: EP US)
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Citation (applicant)
US 201313800350 A 20130313

Citation (search report)
• [I] US 2014320643 A1 20141030 - MARKENDORF ALBERT [CH]
• [A] US 2009237490 A1 20090924 - NELSON JR DOUGLAS V [US]

Designated contracting state (EPC)
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